



NATURAL SCIENCES_ SENIOR PHASE_ MWAZVITA CHIKOPO_ 27-08-2021

TO: TEACHERS/LEARNERS

TOPIC: THE SCIENTIFIC METHOD: A five-step process that scientists use to solve problems

MESSAGE OBJECTIVE(s):

- An alternative way to teach or develop the Scientific Method of Inquiry.

MESSAGE:

The acronym for the steps one may follow in teaching the *Scientific Method* is "PHEOC" May be very useful.

PHEOC is an acronym for

1. **PROBLEM:** Scientists start with a problem and form a question from the problem
2. **HYPOTHESIS:** Scientists then make a scientific prediction about the results of an experiment
3. **EXPERIMENT:** Scientists make a plan to solve the problem and put it into action
4. **OBSERVATION:** As the experiment is taking place, a scientist will watch what happens and take notes on what is happening
5. **CONCLUSION:** After the experiment is over, scientists make a final statement about the results, and if their prediction was correct or not

The *Scientific Method* Includes...

- Making initial observations,
- Coming up with a question of interest that is based on the observations
- Developing a hypothesis or prediction to go along with the question
- Experimenting and testing
- Gathering and recording results of tests and experiments and
- drawing conclusions, Sharing and discussing results

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NB: Reference for NECT Recovery Trackers:

Good Day Colleagues! The Recovery ATPs Trackers for Mathematics, Languages and Science are all on the NECT Website, you can also make use of this link:

https://nect03-my.sharepoint.com/:f/g/person/letlhogilel_nect_org_za/EomgVGVbHrRDr51rbk9JFGIB75FbJJSrRC_hsuHePTO-5PQ?e=5%3aU6BLKR&at=9